## **Amendments to the Claims:**

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**

1. (previously presented) A master mold comprising a support layer comprised of a metal material and a fine structure pattern comprised of a glass or ceramic material supported by said support layer; wherein the support layer material has a lower grinding speed than the material of the fine structure pattern, and the support layer forms bottom portions of the fine structure pattern.

## 2-3. (cancelled)

- 4. (previously presented) The master mold of claim 1 wherein the mold is suitable for making plasma display panel ribs.
- 5. (previously presented) The master mold of claim 1 wherein the mold is suitable for making microfluidic articles.
- 6. (original) The master mold of claim 1 wherein said fine structure pattern is a grid-like protrusion pattern comprising a plurality of ridge-like protrusions arranged substantially parallel while intersecting one another with predetermined gaps among them.
- 7. (previously presented) The master mold of claim 1 wherein said fine structure pattern comprises ribs having;

a rib height of 150 to 300  $\mu m$ , a rib pitch of 150 to 800  $\mu m$ , and

a rib width of 50 to 80  $\mu m.$ 

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8. (previously presented) A master mold comprising a support layer comprised of a metal material and a fine structure pattern supported by said support layer, wherein said fine structure pattern comprises a glass or ceramic material having a higher grinding speed than the support layer material and is formed by selectively removing the higher grinding speed material such that a fine structure pattern is formed and the support layer forms bottom portions of the fine structure pattern.

- 9. (previously presented) The master mold of claim 8 wherein the high grinding speed material is removed by sand blasting.
- 10. (previously presented) The master mold of claim 8 wherein the high grinding speed material is removed by chemical etching.
- 11. (withdrawn/previously presented) A method of producing a master mold comprising the steps of:

forming a support layer from a material;

depositing a layer of a glass or ceramic material having a higher grinding speed than the metal material of the support layer on said support layer to form a composite material layer;

forming a mask on said composite material layer;

selectively removing said layer of high grinding speed material such that the support layer is exposed forming a fine structure pattern wherein the support layer forms bottom portions of the fine structure pattern; and

peeling said mask from said layer of said high grinding speed material.

## 12-13. (cancelled)

14. (withdrawn) The method of claim 11 wherein the high grinding speed material is removed by sand blasting.

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15. (withdrawn) The method of claim 11 wherein the high grinding speed material is removed by chemical etching.

- 16. (withdrawn) The method of claim 11, wherein the high grinding speed material is formed by spraying, enameling or a sol-gel method.
- 17. (withdrawn) The method of claim 11, wherein said mask is formed by the steps of forming a layer of a mask-forming material on said composite material layer and then patterning it into a desired shape by photolithography.
- 18. (withdrawn/previously presented) A method of making a flexible mold comprising:
  - a) providing a master mold according to claim 1;
  - b) applying an ultraviolet curable molding mater to the master mold;
  - c) laminating a support film to the master mold;
- d) irradiating the molding material through the support film thereby forming a flexible mold comprising the support film and a shape imparting layer bonded to support; and
  - e) separating the flexible mold from the master mold.
- 19. (previously presented) The master mold of claim 1 wherein the bottom portions of the fine structure pattern are flat.
- 20. (previously presented) The method of claim 11 wherein the bottom portions of the fine structure pattern are flat.
- 21. (previously presented) The master mold of claim 1 wherein the fine structure pattern consists of a glass or ceramic material and bottom portions consisting of a metal material.
- 22. (previously presented) The method of claim 11 wherein the fine structure pattern consists of a glass or ceramic material and bottom portions consisting of a metal material.

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23. (new) The method of claim 1 wherein the mold is suitable for duplicating a fine structure with high precision.

24. (new) The method of claim 8 wherein the mold is suitable for duplicating a fine structure with high precision.